

**Publications of Department of Biochemistry and Molecular Biology
in 2015**

1. Kiss, B., Tóth, K., Sarang, Z., Garabuczi, T., Szondy, Z.: Retinoids induce Nur77-dependent apoptosis in mouse thymocytes
Biochimica et Biophysica Acta - Molecular Cell Research
Volume 1853, Issue 3, March 01, 2015, Pages 660-670
IF: 5.019
2. Garabuczi, T., Sarang, Z., Szondy, Z.: Glucocorticoids enhance prolonged clearance of apoptotic cells by upregulating liver X receptor, peroxisome proliferator-activated receptor- δ and UCP2
Biochimica et Biophysica Acta - Molecular Cell Research
Volume 1853, Issue 3, March 01, 2015, Pages 573-582
IF: 5.019
3. Yen, J.-H., Lin, L.-C., Chen, M.-C., Sarang, Z., Leong, P.-Y., Chang, I.-C., Hsu, J.-D., Chen, J.-H., Hsieh, Y.-F., Pallai, A., Köröskényi, K., Szondy, Z., Tsay, G.J: The metastatic tumor antigen 1-transglutaminase-2 pathway is involved in self-limitation of monosodium urate crystal-induced inflammation by upregulating TGF- β 1
Arthritis Research and Therapy
Volume 17, Issue 1, March 19, 2015, Article number 65
IF: 3.753
4. Csoosz, É., Emri, G., Kalló, G., Tsaprailis, G., Tozsér, J.: Highly abundant defense proteins in human sweat as revealed by targeted proteomics and label-free quantification mass spectrometry
Journal of the European Academy of Dermatology and Venereology
Volume 29, Issue 10, 1 October 2015, Pages 2024-2031
IF: 2.826
5. Torok, Z., Peto, T., Csoosz, E., Tukacs, E., Molnar, A.M., Berta, A., Tozser, J., Hajdu, A., Nagy, V., Domokos, B., Csutak, A.: Combined Methods for Diabetic Retinopathy Screening, Using Retina Photographs and Tear Fluid Proteomics Biomarkers
Journal of Diabetes Research
Volume 2015, 2015, Article number 623619
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6. Király, R., Thangaraju, K., Nagy, Z., Collighan, R., Nemes, Z., Griffin, M., Fésüs, L.: Isopeptidase activity of human transglutaminase 2: disconnection from transamidation and characterization by kinetic parameters
Amino Acids
7 August 2015, 10p
IF: 3.293
7. Kristof, E., Doan-Xuan, Q.-M., Bai, P., Bacso, Z., Fesüs, L.: Laser-scanning cytometry can quantify human adipocyte browning and proves effectiveness of irisin
Scientific Reports
Volume 5, 27 July 2015, Article number 12540
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8. Albert, R., Kristóf, E., Zahuczky, G., Szatmári-Tóth, M., Veréb, Z., Oláh, B., Moe, M.C., Facskó, A., Fésüs, L., Petrovski, G.: Triamcinolone regulated apopto-phagocytic gene expression patterns in the clearance of dying retinal pigment epithelial cells. A key role of Mertk in the enhanced phagocytosis

Biochimica et Biophysica Acta - General Subjects

Volume 1850, Issue 2, February 2015, Pages 435-446

IF: 4.381

9. Sárvári, A.K., Doan-Xuan, Q.-M., Bacsó, Z., Csomós, I., Balajthy, Z., Fésüs, L.: Interaction of differentiated human adipocytes with macrophages leads to trogocytosis and selective IL-6 secretion

Cell Death and Disease

Volume 6, Issue 1, 1 January 2015, Article number e1613

IF: 5.014

10. Duro, N., Miskei, M., Fuxreiter, M.: Fuzziness endows viral motif-mimicry

Molecular BioSystems

Volume 11, Issue 10, 1 August 2015, Pages 2821-2829

IF: 3.210

11. Váradi, C., Holló, Z., Póliska, S., Nagy, L., Szekanecz, Z., Váncsa, A., Palatka, K., Guttman, A.: Combination of IgG N-glycomics and corresponding transcriptomics data to identify anti-TNF- α treatment responders in inflammatory diseases

Electrophoresis

Volume 36, Issue 11-12, 1 June 2015, Pages 1330-1335

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12. Cuaranta-Monroy, I., Kiss, M., Simandi, Z., Nagy, L.: Genomewide effects of peroxisome proliferator-activated receptor gamma in macrophages and dendritic cells - Revealing complexity through systems biology

European Journal of Clinical Investigation

Volume 45, Issue 9, 1 September 2015, Pages 964-975

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Stem Cells

Volume 33, Issue 3, 1 March 2015, Pages 726-741

IF: 6.523

14. Rühl, R., Krzyżosiak, A., Niewiadomska-Cimicka, A., Rochel, N., Szeles, L., Vaz, B., Wietrzyk-Schindler, M., Álvarez, S., Szklenar, M., Nagy, L., de Lera, A.R., Krężel, W.: 9-cis-13,14-Dihydroretinoic Acid Is an Endogenous Retinoid Acting as RXR Ligand in Mice

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15. Kalló G, Chatterjee A, Tóth M, Rajnavölgyi É, Csutak A, Tózsér J, Csósz É.: Relative quantification of human β -defensins by a proteomics approach based on selected reaction monitoring. *Rapid Commun Mass Spectrom.* 2015 Sep 30;29(18):1623-31. doi: 10.1002/rcm.7259. IF: 2.253
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18. Alvarado G, Jeney V, Tóth A, Csósz É, Kalló G, Huynh AT, Hajnal C, Kalász J, Pásztor ET, Édes I, Gram M, Akerström B, Smith A, Eaton JW, Balla G, Papp Z, Balla J.: Heme-induced contractile dysfunction in Human cardiomyocytes caused by oxidant damage to thick filament proteins. *Free Radic Biol Med.* 2015 Dec;89:248-62. doi: 10.1016/j.freeradbiomed.2015.07.158. Epub 2015 Sep 25. IF: 5.736
19. Cuaranta-Monroy I, Simandi Z, Nagy L.: Differentiation of Adipocytes in Monolayer from Mouse Embryonic Stem Cells
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24. Leiter É, Bálint M, Miskei M, Orosz E, Szabó Z, Pócsi I.: Stress tolerances of nullmutants of function-unknown genes encoding menadione stress-responsive proteins in *Aspergillus nidulans*. *J Basic Microbiol.* 2015 Dec 3. doi:10.1002/jobm.201500500. [Epub ahead of print] PubMed PMID: 26631869.

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25. Biri B, Kiss B, Király R, Schlosser G, Láng O, Kőhidai L, Fésüs L, Nyitray L: Metastasis-associated S100A4 is a specific amine donor and an activity-independent binding partner of transglutaminase-2. *Biochem J* 2016; 473(1):31-42. Epub 2015 Oct 20.

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